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TITLE : SHEET FOR THERMAL WELDING, COMPOSITE MOLDINGS USING THIS SHEET AND MANUFACTURING METHOD FOR COMPOSITE MOLDINGS

ABSTRACT : PROBLEM TO BE SOLVED: To provide a sheet for thermal welding for thermally welding moldings composed of a polyolefin and moldings composed of a polyoxymethylene, and composite moldings using the sheet for thermal welding as well as a method for manufacturing the composite moldings.

SOLUTION: The sheet for thermal welding is of a multi-layer structure consisting of an intermediate layer, a polyolefin-rich layer formed on one of the sides of the intermediate layer and a polyoxymethylene-rich layer formed on the other side of the intermediate layer. The intermediate layer comprises 80-20 vol.% of the polyolefin and 20-80 vol.% of the polyoxymethylene; the polyolefin-rich layer comprises 100-50 vol.% of the polyolefin and 0-50 vol.% of the polyoxymethylene; and the polyoxymethylene-rich layer comprises 0-55 vol.% of the polyolefin and 100-45 vol.% of the polyoxymethylene. In addition, when the volume percentages of the polyolefin in the intermediate layer, the polyolefin-rich layer and the polyoxymethylene-rich layer are given as POL(2), POL (3) and POL (4) respectively, the constitution of the sheet for thermal welding satisfies $POL(3) > POL(2) > POL(4)$. The moldings constituted of the polyolefin and the moldings of the polyoxymethylene are thermally welded together by a hotplate through the sheet for thermal welding.

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